## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/10886

A. CLAS IPC(7)	SIFICATION OF SUBJECT MATTER : D01D 5/12	•			
US CL	: 246/441				
	International Patent Classification (IPC) or to both na DS SEARCHED	tional classification and IPC			
U.S.: 24	cumentation searched (classification system followed b 6/441,452,465; 425/174.8E,174.8R; 57/402	y classification symbols)			
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched		
Electronic da	ta base consulted during the international search (name	e of data base and, where practicable, search	terms used)		
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
х	US 6,110,590 A (ZARKOOB et al) 29 August 2000	(29.08.2000), Figure 1.	1-10, 12-17, 28-31		
Ÿ			18-26		
<b>x</b> .	US 2,338,570 A (CHILDS) 30 October 1941 (30.10.	1941), Figure 1.	1-17, 27-31		
Y			18-26		
x	US 6,616,435 B2 (LEE et al) 09 September 2003 (09	0.09.2003), Figure 1A.	1-17, 27-31		
Y		:	18-26		
x 	US 4,878,908 A (MARTIN et al) 07 November 1989	(07.11.1989), Figure 1.	1, 4-10, 12-15, 17, 28-		
Y Y	US 6,267,987 B1 (PARK et al) 31 July 2001 (31.07.	2001), col 6, lines 35-55.	18-26 18-23 and 25-26		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> </ul>					
•	olication or patent published on or after the international filing date	"X" document of particular relevance; the cla considered novel or cannot be considere when the document is taken alone	timed invention cannot be d to involve an inventive step		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as "Y"			when the document is combined		
"O" document	referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art			
	published prior to the international filing date but later than the te claimed	"&" document member of the same patent far			
Date of the actual completion of the international search		Date of mailing of the international search report  0.5 DEC 2005			
27 September	27 September 2005 (27.09.2005)  Name and mailing address of the ISA/US  Application of the ISA/US				
	Stop PCT, Attn: ISA/US	Druce -			
Commissioner for Patents P.O. Box 1450 Therefore No. (571) 277 1170					
	F.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230  Telephone No. (571) 272-1130				

## INTERNATIONAL SEARCH REPORT

International application No. PCT/US05/10886

ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
. Y	US 6,308,434 B1 (CHICKERING, III et al) 30 October 2001 (30.10.2001), col 8, line 40 - col 9, line 50.	18-23 and 25-26 18-26
Y	US 6,471,993 B1 (SHASTRI et al) 29 October 2002 (29.10.2002), col 3, lines 40-55.	
· ·		
·		
:		
	1	
ļ		•
		•
	1	
		,
		•